## JUSTIFICATION FOR PURCHASE OF ZEBRA Z90XiII BARCODE PRINTER

### KEVIN FUNK

Developing the ability to automatically read the lot ID directly off of the lot box is a pivotal feature of implementing intrinsic-time processing in the photolith area.  The plan is to modify the current lot ID tag to include not only a human-readable lot ID but a large barcode version of the lot ID as well.

Existing technologies (Brother label makers) do not support generalization of tag layout, require mutiple manual data entries and do not support production of a sufficiently wide barcode to provide rotational and translational margin in tag placement.

A ZEBRA thermal transfer barcode tag printer would allow all of these issues to be addressed.  The tag would be printed directly onto a plastic card of appropriate size.  The ZEBRA BarOne software included in the purchase order allows for completely customized tag configuration... based on a single input of the lot ID number.

Not included in this purchase order is the consumable plastic card stock (customized to our tag size) or the thermal transfer printer ribbon. There are several options for each of these components and the best match for our specific requirements is still being researched.  Once a recommended combination has been decided upon another purchase order will be forthcoming to acquire initial quantities.


Total cost of purchase order: $4750.00

Project being supported: PERRIER (intrinsic-time photolith processing)